

Requested Patent EP0938878A3

Title: WIRE REINFORCED VASCULAR PROSTHESIS ;

Abstracted Patent: EP0938878 ;

Publication Date: 1999-09-01 ;

Inventor(s):

LUND SIGNE (US); RAKOS RONALD (US); TOMONTO CHARLES (US) ;

Applicant(s): CORDIS CORP (US) ;

Application Number: EP19990301335 19990224 ;

Priority Number(s): US19980030408 19980225 ;

IPC Classification: A61F2/06 ;

Equivalents: AU1730899, JP11285537, US6015432

**ABSTRACT:**

What is described herein is an endovascular tube or bifurcated prosthesis used for the repair of aneurysms or other vessel disease. This can be soft or hard occlusive disease. This prosthesis is constructed by fabricating a structure that consists of a textile or other polymeric material and through which is threaded a superelastic metal wire such as a nitinol, a ductile wire or other filament material. The textile can be a polymeric material. The wire provides the self-expandability of the current device. Ideally, the thickness of the device should be minimized, so that it can be delivered to the diseased site using a percutaneous procedure.

Requested Patent: EP0938878A3

Title: WIRE REINFORCED VASCULAR PROSTHESIS ;

Abstracted Patent: EP0938878 ;

Publication Date: 1999-09-01 ;

Inventor(s):

LUND SIGNE (US); RAKOS RONALD (US); TOMONTO CHARLES (US) ;

Applicant(s): CORDIS CORP (US) ;

Application Number: EP19990301335 19990224 ;

Priority Number(s): US19980030408 19980225 ;

IPC Classification: A61F2/06 ;

Equivalents: AU1730899, JP11285537, US6015432

**ABSTRACT:**

What is described herein is a endovascular tube or bifurcated prosthesis used for the repair of aneurysms or other vessel disease. This can be soft or hard occlusive disease. This prosthesis is constructed by fabricating a structure that consists of a textile or other polymeric material and through which is threaded a superelastic metal wire such as a nitinol, a ductile wire or other filament material. The textile can be a polymeric material. The wire provides the self-expandability of the current device. Ideally, the thickness of the device should be minimized, so that it can be delivered to the diseased site using a percutaneous procedure.



(19)

Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

EP 0 938 878 A3

(12)

## EUROPEAN PATENT APPLICATION

(88) Date of publication A3:  
15.03.2000 Bulletin 2000/11

(51) Int. Cl.<sup>7</sup>: A61F 2/06

(43) Date of publication A2:  
01.09.1999 Bulletin 1999/35

(21) Application number: 99301335.8

(22) Date of filing: 24.02.1999

(84) Designated Contracting States:  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU  
MC NL PT SE

Designated Extension States:

AL LT LV MK RO SI

(30) Priority: 25.02.1998 US 30408

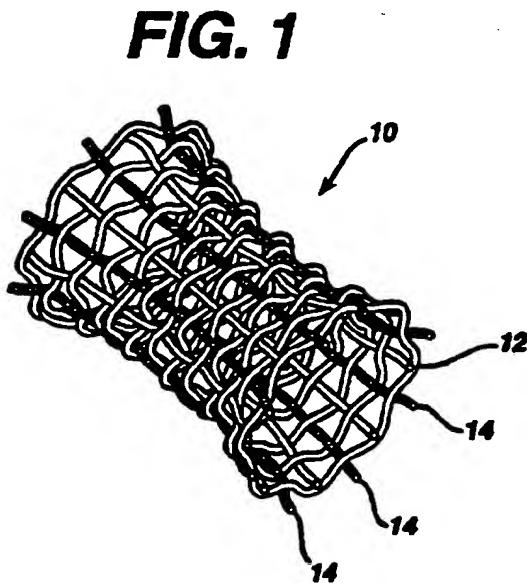
(71) Applicant: Cordis Corporation  
Miami Lakes Florida 33014 (US)

(72) Inventors:  
• Rakos, Ronald  
Monmouth Junction, NJ 08852 (US)  
• Lund, Signe  
Bedminster, NJ 07921 (US)  
• Toronto, Charles  
Neshanic Station, NJ 08853 (US)

(74) Representative:  
Fisher, Adrian John  
CARPMAELS & RANSFORD  
43 Bloomsbury Square  
London WC1A 2RA (GB)

### (54) Wire reinforced vascular prosthesis

(57) What is described herein is an endovascular tube or bifurcated prosthesis used for the repair of aneurysms or other vessel disease. This can be soft or hard occlusive disease. This prosthesis is constructed by fabricating a structure that consists of a textile or other polymeric material and through which is threaded a superelastic metal wire such as a nitinol, a ductile wire or other filament material. The textile can be a polymeric material. The wire provides the self-expandability of the current device. Ideally, the thickness of the device should be minimized, so that it can be delivered to the diseased site using a percutaneous procedure.



EP 0 938 878 A3



European Patent  
Office

## EUROPEAN SEARCH REPORT

Application Number

EP 99 30 1335

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.)
X	US 5 674 276 A (ANDERSEN ERIK ET AL) 7 October 1997 (1997-10-07) * figures 1,3 * * column 4, line 32 - line 49 * * column 5, line 33 - line 45 * * column 6, line 20 - line 65 * * column 7, line 25 - line 54 * --	1-4,6-10	A61F2/06
X	EP 0 804 909 A (SCHNEIDER USA INC) 5 November 1997 (1997-11-05) * figure 6 * * column 6, line 38 - line 43 * * column 6, line 55 - column 7, line 4 * * column 7, line 28 - column 10, line 25 * * column 10, line 26 - column 11, line 12 * * column 17, line 34 - line 58 *	1-4,6,9, 10	
Y	EP 0 646 365 A (PARODI JUAN C) 5 April 1995 (1995-04-05) * figures 4,23 * * column 10, line 34 - column 11, line 24 *	5	
Y	EP 0 646 365 A (PARODI JUAN C) 5 April 1995 (1995-04-05) * figures 4,23 * * column 10, line 34 - column 11, line 24 *	5	TECHNICAL FIELDS SEARCHED (Int.Cl.)
X	US 4 610 688 A (SILVESTRINI THOMAS A ET AL) 9 September 1986 (1986-09-09) * figure 2 * * column 3, line 62 - column 4, line 49 * * column 5, line 1 - column 7, line 5 * --	1,9	A61F
X	EP 0 689 807 A (ADVANCED CARDIOVASCULAR SYSTEM) 3 January 1996 (1996-01-03) * figures 1,7,8 * * column 6, line 14 - column 8, line 35 * * claims 11-13 *	9	
A	—	1	
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
THE HAGUE	25 January 2000	Mary, C	
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-vention disclosure P : intermediate document			
T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons B : member of the same patent family, corresponding document			



European Patent  
Office

## EUROPEAN SEARCH REPORT

Application Number  
EP 99 30 1335

DOCUMENTS CONSIDERED TO BE RELEVANT									
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)						
A	<p>EP 0 464 755 A (NISSHO KK) 8 January 1992 (1992-01-08)</p> <p>* figures 4,7 *</p> <p>* page 5, line 15 - line 42 *</p> <p>* page 5, line 56 - page 6, line 2 *</p> <p>* page 6, line 48 - line 14 *</p> <p>* claims 1-6 *</p> <p>-----</p>	1,7-9							
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)						
<p>The present search report has been drawn up for all claims</p> <table border="1"> <tr> <td>Place of search</td> <td>Date of completion of the search</td> <td>Examiner</td> </tr> <tr> <td>THE HAGUE</td> <td>25 January 2000</td> <td>Mary, C</td> </tr> </table> <p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone  Y : particularly relevant if combined with another document of the same category  A : technological background  O : non-written disclosure  P : intermediate document</p> <p>T : theory or principle underlying the invention  E : earlier patent document, but published on, or after the filing date  D : document cited in the application  L : document cited for other reasons  &amp; : member of the same patent family, corresponding document</p>				Place of search	Date of completion of the search	Examiner	THE HAGUE	25 January 2000	Mary, C
Place of search	Date of completion of the search	Examiner							
THE HAGUE	25 January 2000	Mary, C							

ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.

EP 99 30 1335

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

25-01-2000

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5674276	A	07-10-1997	US 5366504 A US 5405378 A CA 2139564 A EP 0651624 A JP 7509152 T WO 9401056 A US 5876445 A US 5653748 A	22-11-1994 11-04-1995 20-01-1994 10-05-1995 12-10-1995 20-01-1994 02-03-1999 05-08-1994
EP 0804909	A	05-11-1997	US 5718159 A AU 1992897 A CA 2202708 A JP 10033692 A	17-02-1998 06-11-1997 30-10-1997 10-02-1998
EP 0646365	A	05-04-1995	US 5578071 A AU 707812 B AU 1661597 A AU 699556 B AU 1661697 A AU 699279 B AU 1661797 A AU 707720 B AU 1661897 A AU 678511 B AU 7432894 A BR 9403662 A CA 2132815 A.C EP 0903118 A EP 0903119 A EP 0903120 A JP 8047503 A US 5693087 A US 5571173 A US 5643208 A US 5591229 A ZA 9407492 A	26-11-1996 22-07-1999 05-06-1997 10-12-1998 05-06-1997 26-11-1998 05-06-1997 15-07-1999 05-06-1997 29-05-1997 13-04-1995 27-06-1995 02-04-1995 24-03-1999 24-03-1999 24-03-1999 20-02-1996 02-12-1997 05-11-1996 01-07-1997 07-01-1997 15-05-1995
US 4610688	A	09-09-1986	AT 21816 T AU 554461 B AU 2636584 A CA 1220601 A DK 176984 A EP 0122744 A IE 55194 B IL 71426 A JP 1375239 C	15-09-1986 21-08-1986 11-10-1984 21-04-1987 05-10-1984 24-10-1984 20-06-1990 30-06-1988 22-04-1987

ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.

EP 99 30 1335

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on. The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

25-01-2000

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4610688 A		JP 59194738 A JP 61040420 B KR 8601954 B MX 159168 A US 4834755 A ZA 8402473 A	05-11-1984 09-09-1986 05-11-1986 26-04-1989 30-05-1989 27-11-1985
EP 0689807 A	03-01-1996	US 5629077 A CA 2152647 A JP 8024346 A US 5766710 A	13-05-1997 28-12-1995 30-01-1996 16-06-1998
EP 0464755 A	08-01-1992	JP 2619972 B JP 4061863 A JP 4073057 A DE 69109374 D DE 69109374 T US 5236447 A	11-06-1997 27-02-1992 09-03-1992 08-06-1995 25-01-1996 17-08-1993